

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201841030052 A

(19) INDIA

(22) Date of filing of Application :10/08/2018

(43) Publication Date : 24/08/2018

(54) Title of the invention : VERTICAL AXIS WIND TURBINE FOR POWER GENERATION BY USING WIND ENERGY FROM RUNNING VEHICLES ON HIGHWAY

(51) International classification :F03D9/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SRI VENKATESHWARA COLLEGE OF ENGINEERING

Address of Applicant :Sri Venkateshwara College of Engineering,KIA Road,Vidyanaagar, Bengaluru,Karnataka,India-562 157 Karnataka India

(72)Name of Inventor :

1)Shridhar Deshpande

2)Prashanth D

3)Prathik S

4)Rahul B

5)Sampath Kumar B

(57) Abstract :

The present invention relates to the compact Vertical Wind Turbine and its compact designing with easily installations system. The compact vertical wind turbine consists of helical blade design (VAWT Vertical axis wind turbine) which can generate power in slow wind regardless of direction will always cause the rotation of drive rotors during speeding of Fast moving light, medium and heavy motor vehicle . Helical Blades are mounted on the shaft the shaft drive rotors. One end of solid drive shaft is fixed with driver pear gear and other end of its hold a driven gear. Driver gear is meshed with driven gear of generator shaft further to generate electricity. Here one generator are used for power generation at its irrespective position. Whole assembly is supported by a hollow rectangular tubes and end of it is provided with triangular stricture made of rectangular hallow tubes hold with the supporting base. Bearings are provided for reducing friction between low speed shaft and frame. Generator casing is provided for holding generators at their irrespective position

No. of Pages : 12 No. of Claims : 5